



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of:

Cheung, et al.

Serial No.: 10/648,616

Confirmation No.: 4378

Filed:

August 26, 2003

For:

Plasma Processes For

**Depositing Low Dielectric** 

Constant Films

MAIL STOP AMENDMENT Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

Group Art Unit: Unknown

Examiner:

Unknown

CERTIFICATE OF MAILING

37 CFR 1.8

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The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/3032.C6/KMT.

Respectfully submitted,

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Approved for use through 07/31/2006. OMB 0651-0031

AMAT/3032,C6/DSM/LOW K/JW

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Attorney Docket Number

U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan	
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)		Cited Document	Passages or Relevant Figures Appear	
	A1	US-6,790,789	09/14/2004	Grill, et al.		
	A2	US-6,770,573	08/03/2004	Grill, et al.		
	А3	US-6,756,323	06/29/2004	Grill, et al.		
	A4	US-6,660,391	12/09/2003	Rose, et al.		
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )				T <sup>6</sup>	
	B1	EP 1 176 226 A1	01/30/2002	Nemani, et al.			
	B2	EP 1 354 980 A1	10/22/2003	Vrtis, et al.			
	B3	WO 99/21706 A1	05/06/1999	Lee, et al.			
_	B4	WO 00/19498 A1	04/06/2000	Huang			
	B5	WO 99/41423 A2	08/19/1999	Cheung, et al.			

Examiner	Date
Signature	Considered

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Sheet 2 of 3

Complete if Known					
Application Number	10/648,616				
Filing Date	AUGUST 26, 2003				
First Named Inventor	CHEUNG, ET AL.				
Art Unit	UNKNOWN				
Examiner Name	UNKNOWN				
Attorney Docket Number	AMAT/3032.C6/DSM/LOW K/JW				

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear	
	A22	US-6,124,641	09/26/2000	Matsuura		
	A23	US-6,080,526	06/27/2000	Yang, et al.		
	A24	US-5,976,979	11/02/1999	Chen		
	A25	US-5,000,178	03/19/1991	Griffith		
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		FOREIGN PA	TENT DOCU	MENTS		
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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	NON PATENT LITERATURE DOCUMENTS	
Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
C1	WU, ET AL. "Advanced Metal Barrier Free Cu Damascene Interconnects with PECVD Silicon Carbide Barriers for 90/65-nm BEOL Technology", 2002 IEEE, IEDM – pp. 595-598.	
C2	TAJIMA, ET AL. "Characterization of Plasma Polymers from Tetramethysilane, Octamethylcyclotetrasiloxane, and Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 25 (1987) pp. 1737-1744.	
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	No. <sup>1</sup>	Cite No.1  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  WU, ET AL. "Advanced Metal Barrier Free Cu Damascene Interconnects with PECVD Silicon Carbide Barriers for 90/65-nm BEOL Technology", 2002 IEEE, IEDM – pp. 595-598.  TAJIMA, ET AL. "Characterization of Plasma Polymers from Tetramethysilane, Octamethylcyclotetrasiloxane, and Methyltrimethoxysilane" Journal of Polymer

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